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I, ADRIAN PAUL BROWN, M.A., M.I.L., M.I.T.I., declare

- 1. That I am a citizen of the United Kingdom of Great Britain and Northern Ireland, residing at 5 Gilbert Road, London, SE11 4NZ.
- 2. That I am well acquainted with the French and English languages.
- That the attached is a true translation into the English language of the certified copy of French Patent Application No. 03 08712 filed on 17th July 2003.
- 4. That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardise the validity of the patent application in the United States of America or any patent issuing thereon.

DECLARED THIS 10th DAY OF NOVEMBER 2005

A P BROWN

a. P. from



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UTILITY CERTIFICATE - CERTIFICATE OF ADDITION

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Issued in Paris, 23 APR. 2004

For the Director General of the National Institute for Industrial Property, The Head of the Patents Division

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Forename		Sylvie			
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7 INVENTOR(S)		The inventors are necessa	rilly natural persons.		
The Applicants and the	inventors are the same	□Yes	□Yes		
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The present invention relates to a pharmaceutical composition for the nasal administration of piribedil.

Piribedil is a dopamine agonist which stimulates dopamine receptors and the cerebral and peripheral dopaminergic pathways.

Piribedil has hitherto been administered by the oral route in the form of prolonged-release tablets to be swallowed with half a glass of water. The said piribedil tablets are useful in the treatment of chronic pathological cognitive and neurosensory deficit in the elderly patient, in the ancillary treatment of intermittent claudication in chronic occlusive arteriopathies in the lower limbs and in the treatment of Parkinson's disease.

Piribedil may also be administered by the injectable route in order to improve the painful manifestations of arteriopathies in ischaemic attack, sometimes in association with surgical treatment.

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Pharmacokinetic studies in humans have shown that the bioavailability of piribedil by the oral route is low in relation to the parenteral route and is subject to considerable variation within one and the same individual and from one individual to another.

The currently marketed form of piribedil is a prolonged-release form allowing gradual absorption and release of the active ingredient. Kinetic studies in humans have shown that, for the 50 mg dose, therapeutic levels are spread out over a period lasting more than 24 hours.

However, especially for the treatment of Parkinson's disease, the low bioavailability of piribedil and the inter- and intra-individual variations in concentration have resulted in the search for a new formulation allowing those problems to be solved. In addition, it was especially desirable for such Parkinson's patients that a rapid-action form be made available to medical staff in order to treat the very frequent acute attacks in those patients, especially for the rapid alleviation of akinesia.

The pharmaceutical compositions of the present invention make it possible not only to solve the known problems of the prolonged-release form but also to offer a superior medical service which especially allows the quality of life of patients to be improved. Being highly vascularised, the nasal mucosa is especially well suited to the rapid absorption of piribedil provided that the pharmaceutical form is matched to the characteristics of this active ingredient.

More especially, the pharmaceutical compositions according to the invention are characterised in that they comprise piribedil or a pharmaceutically acceptable salt thereof, optionally a cyclodextrin, and one or more pharmaceutically acceptable excipients.

The pharmaceutical compositions according to the invention are provided in the form of aqueous solutions or powders which can be administered to humans with the aid of a suitable device allowing the amount of piribedil that is required for obtaining the appropriate therapeutic effect to be delivered on each spray.

In the pharmaceutical compositions according to the invention, the piribedil is in the form of the base or a pharmaceutically acceptable salt.

The piribedil is preferably used in the form of the base.

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The cyclodextrins that may be used in the pharmaceutical compositions according to the invention are, more specifically, β -cyclodextrins. Among the β -cyclodextrins there may be mentioned, without implying any limitation, methylated or partially methylated β -cyclodextrins, hydroxypropyl- β -cyclodextrin and sulphobutyl ether- β -cyclodextrin. Preferred cyclodextrins are partially and randomly methylated cyclodextrins. Partially and randomly methylated cyclodextrin is preferably cyclodextrin wherein the degree of substitution by methyl groups is around 1.7 (RAMEB). In nasal solutions, preference is given to the addition of cyclodextrins.

The amount of piribedil (equivalent of base) in the pharmaceutical compositions according to the invention that are solutions ranges from 10 to 500 mg, preferably from 100 to

400 mg and the amount of cyclodextrin ranges from 75 to 3750 mg, preferably from 750 to 3000 mg, for a final aqueous solution of 10 ml.

Preferably, for a final aqueous solution of 10 ml, the amount of piribedil (equivalent of base) is 100 mg and the amount of partially methylated cyclodextrin (RAMEB) is 750 mg.

The aqueous solutions may be rendered isotonic by the addition of sodium chloride, for example. The pH of the aqueous solutions is preferably adjusted to 6 by the addition of hydrochloric acid.

In the pharmaceutical compositions according to the invention that are powders, the amount of piribedil ranges from 0.1 to 20 mg, preferably from 1 to 10 mg, and the amount of cyclodextrin ranges from 7.5 to 75 mg.

Clinical studies carried out in Parkinson's patients using the pharmaceutical compositions according to the invention have shown excellent tolerance in humans, better bioavailability and increased efficacy compared to the oral form currently marketed.

The following Examples illustrate the invention without limiting it in any way.

15 **EXAMPLE 1**:

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Solution formulation:

Piribedil base	100 mg
RAMEB	750 mg
Sodium chloride	68 mg
1N hydrochloric acid, q.s.	рН 6
Purified water, q.s	10 ml

This pharmaceutical composition is administered using a metering pump delivering 100 µl of solution, or 1 mg of piribedil base, on each spray.

	EXAMPLE 2:
	Solution formulation:
	Piribedil base400 mg
	RAMEB3000 mg
5	Sodium chloride65 mg
	1N hydrochloric acid, q.spH 6
	Purified water, q.s 10 ml
	This pharmaceutical composition is administered using a metering pump delivering 100 µl
	of solution, or 4 mg of piribedil base, on each spray.
10	EXAMPLE 3:
	Powder formulation:
	Piribedil base2 mg
	RAMEB15 mg
	Mannitol3 mg
15	This pharmaceutical composition is administered using a powder spray delivering 20 mg of
	powder, or 2 mg of piribedil base, on each spray.
	EXAMPLE 4:
	Powder formulation:
	Piribedil base, micronised10 mg
20	Mannitol5 mg
	This pharmaceutical composition is administered using a powder spray delivering 15 mg of
	powder, or 10 mg of piribedil base, on each spray.
	EXAMPLE 5:

Powder formulation:

Piribedil monomethanesulphonate......2.65 mg 25 This pharmaceutical composition is administered using a powder spray delivering 20 mg of powder, or 2 mg of piribedil base, on each spray.

CLINICAL STUDIES

KINETICS, TOLERANCE AND BIOAVAILABILITY STUDY IN HEALTHY VOLUNTEERS

A study was carried out in 24 healthy volunteers in order to assess the local tolerance of the pharmaceutical composition according to the invention and also the kinetics of the formulation.

This study was carried out using the formulation described in Example 1, administered with the aid of a metering pump which delivers 100 μ l of solution on each spray. The doses of piribedil tested are as follows: 0.1 mg, 0.25 mg, 0.5 mg, 1 mg and 2 mg, administered using two sprays each of 100 μ l.

By means of this test it has been possible to show that the local tolerance of the pharmaceutical composition according to the invention is very good up to the 2 mg dose.

The results of the kinetics parameters have shown the following:

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- The maximum concentration (C max) at the 2 mg dose is about 14 ng/ml. This dose corresponds to the minimum effective plasma concentration found to have a therapeutic effect on the tremors of Parkinson's patients when the latter are treated by the injectable route.
- The said maximum concentration is obtained 15 to 25 minutes after administration.
- From these results it has been possible to deduce that the bioavailability of piribedil administered by the nasal route is from 50 to 70 %.

CLAIMS

- 1. Pharmaceutical composition in the form of an aqueous solution or powder for the nasal administration of piribedil, characterised in that it comprises:
 - piribedil or a pharmaceutically acceptable salt thereof,
 - optionally a cyclodextrin,

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- one or more pharmaceutically acceptable excipients.
- 2. Pharmaceutical composition according to claim 1, characterised in that the piribedil is in the form of the base.
- 3. Pharmaceutical composition according to either claim 1 or claim 2, characterised in that the cyclodextrin is a partially methylated β -cyclodextrin.
- 10 <u>4.</u> Pharmaceutical composition according to claim 3, characterised in that the cyclodextrin is a β-cyclodextrin wherein the degree of substitution by methyl groups is around 1.7.
 - 5. Pharmaceutical composition according to any one of claims 1 to 4, characterised in that, for a final aqueous solution of 10 ml, the amount of piribedil is from 10 to 500 mg for an amount of cyclodextrin of from 75 to 3750 mg.
- 15 <u>6.</u> Pharmaceutical composition according to any one of claims 1 to 4, characterised in that, when the composition is in powder form, the amount of piribedil is from 0.1 mg to 20 mg for an amount of cyclodextrin of from 7.5 to 75 mg.

Received on 06/08/03

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Page No. 1 / 1

(if the Applicant is not the inventor or not the only inventor)

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NATIONAL REGISTRATION NO. 17TLE OF THE INVENTION (maximum 200 characters or spaces) PHARMACEUTICAL COMPOSITION FOR THE ADMINISTRATION OF PIRIBEDIL BY THE NASAL ROUTE APPLICANT(S): LES LABORATOIRES SERVIER 12, Place de la Défense 92415 COURBEVOIE Cedex FRANCE DESIGNATE(S) AS INVENTOR(S): (Indicate at the top right-hand side "Page No. 1/1". If there are more than three inventors, use an identical form and number each page indicating the total number of pages). Surname ROLLAND Forenames Hervé Address Street 180, rue des Alisiers Postal code and town 45160 OLIVET Belonging company (optional) Surname Patrick Address Street 15, rue Marcelin Berthelot Postal code and town 45000 ORLEANS Belonging company (optional) Surname Forenames Address Street Postal code and town 45000 ORLEANS Belonging company (optional) DATE AND SIGNATURE(S) OF THE APPLICANT(S) OR OF THE AUTHORISED AGENT (Name and position of signatory) 17 July 2003 [signature] Sylvie JAGUELIN-GUINAMANT Patent Employ	Your references for this file (optional)		90015			
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Patent Engineer	Patent Engineer					

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